Claims

1. A polyamide composition comprising (a) a polyamide, (b) at least one phosphorus compound selected from the group consisting of phosphoric acids, phosphorous acids, hypophosphorous acids, metal phosphates, metal phosphites, metal hypophosphites, phosphoric esters, and phosphorous esters, and (c) a soluble metal aluminate represented by the general formula $(M_2O)_X(Al_2O_3)_Y$ (wherein X+Y=1 and M is a Group 1 metal of the Periodic Table), wherein the molar ratio of polyvalent metal to monovalent metal in the composition (polyvalent metal/monovalent metal) is from 0.25 to 1.0.

2. The polyamide composition according to claim 1, wherein the phosphorus compound (b) is at least one compound selected from salts of phosphoric acid, phosphorous acid or hypophosphorous acid with Group 1 metals of the Periodic Table.

3. The polyamide composition according to claim 1, wherein the soluble metal aluminate (c) is a sodium aluminate represented by the general formula $(Na_2O)_X(Al_2O_3)_Y$ (wherein X+Y=1 and $0.35 \leq Y/X \leq 1.25$).

4. The polyamide composition according to any one of claims 1 to 3, wherein the polyamide composition contains 0.10 to 10 mol of phosphorus element, 0.10 to 10 mol of the polyvalent metal, and 0.10 to 10 mol of the monovalent metal per 1,000,000 g of polyamide.

5. A process for producing a polyamide composition comprising a step of blending (a') at least one of a polyamide-forming component, a polyamide during polymerization, and a melted polyamide with (b) at least one phosphorus compound selected from the group consisting of phosphoric acids, phosphorous acids, hypophosphorous acids, metal phosphates, metal phosphites, metal hypophosphites, phosphoric esters, and phosphorous esters and (c) a soluble metal aluminate represented by the general formula $(M_2O)_X(Al_2O_3)_Y$ (wherein X+Y=1 and M is a Group 1 metal of the Periodic Table), wherein the components (b) and (c) are blended so that the molar ratio of polyvalent metal to monovalent metal (polyvalent metal/monovalent metal) becomes from 0.25 to 1.0.

6. The process for producing the polyamide composition according to claim 5, wherein both of the phosphorus compound (b) and the soluble metal aluminate (c) are mixed with the polyamide-forming components and

then polymerization is conducted.

7. The process for producing the polyamide composition according to claim 5, wherein the phosphorus compound (b) is blended with the polyamide-forming component, followed by conducting polymerization, and (c) the soluble metal aluminate is blended with the polyamide during polymerization.

8. The process for producing the polyamide composition according to claim 5, wherein the soluble metal aluminate (c) is dissolved in water and then blended in the form of an aqueous solution having a pH exceeding 9.

9. The process for producing the polyamide composition according to claim 5, wherein the phosphorus compound (b) is at least one compound selected from salts of phosphorous acid or hypophosphorous acid with Group 1 metals of the Periodic Table.

10. The process for producing the polyamide composition according to claim 5, wherein the soluble metal aluminate (c) is sodium aluminate represented by the general formula $(Na_2O)_X(Al_2O_3)_Y$ (wherein X+Y=1 and

$0.35 \leq Y/X \leq 1.25$).

11. The process for producing the polyamide composition according to claim 5, wherein the phosphorus compound (b) and the soluble metal aluminate (c) are blended so that 0.10 to 10 mol of phosphorus element, 0.10 to 10 mol of polyvalent metal, and 0.10 to 10 mol of monovalent metal per 1,000,000 g of polyamide are contained.

12. The process for producing the polyamide composition according to claim 5 or 10, wherein the soluble metal aluminate (c) is $0.35 \leq Y/X < 1.0$ and the relationship with its molar mixing amount (Z') per 1,000,000 g of polyamide is $Z' < 1.785/(X-Y)$.

13. The process for producing the polyamide composition according to claim 5 or 10, wherein the soluble metal aluminate (c) is $0.35 \leq Y/X < 1.0$ and the relationship with its molar mixing amount (Z') per 1,000,000 g of polyamide is $Z' < 1.785/X$.

14. A polyamide composition obtained by the production process according to any one of claims 5 to 13.

15. A polyamide composition comprising 100 parts by weight of the polyamide composition according to claim 1 or claim 14 and 0.001 to 1 part by weight of at least one moldability improving agent selected from higher fatty acids, metal salts of higher fatty acids, higher fatty acid amides, and higher fatty acid esters.